

TITLESOYBEAN PLANT PRODUCING SEEDS WITH REDUCED LEVELS  
OF RAFFINOSE SACCHARIDES AND PHYTIC ACIDABSTRACT OF THE DISCLOSURE

5           A soybean enzyme, *myo*-inositol 1-phosphate synthase, whose manipulation  
results in the alteration of raffinose saccharide, sucrose, phytic acid and inorganic  
phosphate content of soybean seeds, thus leading to valuable and useful soybean  
products, has been identified. Soybean lines with decreased capacity for the synthesis  
of *myo*-inositol 1-phosphate in the tissue of developing seeds in comparison to seeds  
10 of other soybean lines, have been developed. As taught herein, reduction of  
*myo*-inositol 1-phosphate synthase enzymatic activity by any of several means will  
result in soybean seeds displaying this desirable phenotype.

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